

IBM Script Portlet for WebSphere Portal

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Agenda

- Introduction
- Goals
- Value proposition
- Demo
- Script Portlet v/s RAD/WEF portlets
- Resources

Script Portlet

- Script portlet is a great tool to start writing portlet using only js, html and css skills and knowledge
- Progressively disclose portal concepts like portlet preferences, sharing render params
- Basic idea
 - People have constructed lots of services - IT team builds them
 - These scripts get created by IT team, citizen developers with just scripting skills
 - IT might make these scripts and people can change them or modify by LOB use
 - We store these in WCM
 - LOB or citizen developers to do this stuff - since its safe as you have workflow approvals
 - Great dev environment - Live preview while I'm editing it

Goals

- Enable the Line of Business to have autonomy and not be so dependent on Central IT
 - so eliminate the reasons they go off and stand up a drupal site
 - allow them to have a small team of 'programmers' that can make their customizations quickly and easily
- Enable customers and partners to write portlets using skills they can hire
 - that is 'scripting skills' that know a variety of scripting libraries and extensions (dojo, jquery, extjs, whatever)
 - write their first portlet with no knowledge of our system (copy and paste what they have working elsewhere)
- Provide a programming model that can be used for customization on the cloud
 - so customers and partners can deploy scripts against existing services (theirs or ours or internet ones) without deploying code on our cloud servers

Line Of Business usecase

- Creating of portlets using Javascript
 - IT can create some types of portlets in less time
 - LOB “power users”
 - can take what they get from central IT and change the user experience via HTML, CSS and Script
 - Take scripts they find on other sites and bring them into their sites... not have to wait for the IT team
 - Make these changes within a project for isolation and preview in context before publishing
 - IT can
 - Check what is being published for security and other issues before it goes live via WCM workflow approval

Value Proposition

Leverage Core Scripting Skills Enable exploitation of key portlet and portal concepts

- Start the programmer off requiring only the skills they already have.
- Progressively disclose to them additional Portal/Portlet Value Add
- There are lots of things that portlets can do, but here are some of the most important use cases that we will enable first
 - Inter portlet communications
 - Portlet preferences
 - Responsive Design and Adaptive Design
 - Live Text
 - Process integration

Value Proposition

- Leverage WebSphere Portal features
 - Portlet value add (Inter portlet communications, portlet preferences)
 - Portal value add (live text, process integration, etc)
 - Mix and match with existing and new portlets written in RAD or WEF on a page and share context between them
 - WEF data builders - these can emit XML or JSON already, so i can leverage all the existing WEF data builders for enterprise integration
 - Points of variability (portlet preferences) - the IT team can build portlets so that the business can use and re-use them via just changing settings vs coding.

Value Proposition

- Leverage WCM features
 - Projects and approval
 - Code reviews and checks in place by subject matter experts
 - modify the script and test it live without breaking anyone else
 - business and/or IT for approval before it goes live
 - Access to shared render params and portlet preferences
 - Access to 'live text', user info etc.
 - Content targeting
 - Adaptive design (conditional rendering within presentation template based on device class) – even geography
 - Create and store fake JSON data sets in WCM for testing - switch from the test url to the live data feed for test vs production.
 - Create libraries of data, CSS, script and mark up snippets and easily link to them from within the WCM UI
 - Social Business Toolkit snippets
 - Worklight integration snippets to jumpstart development

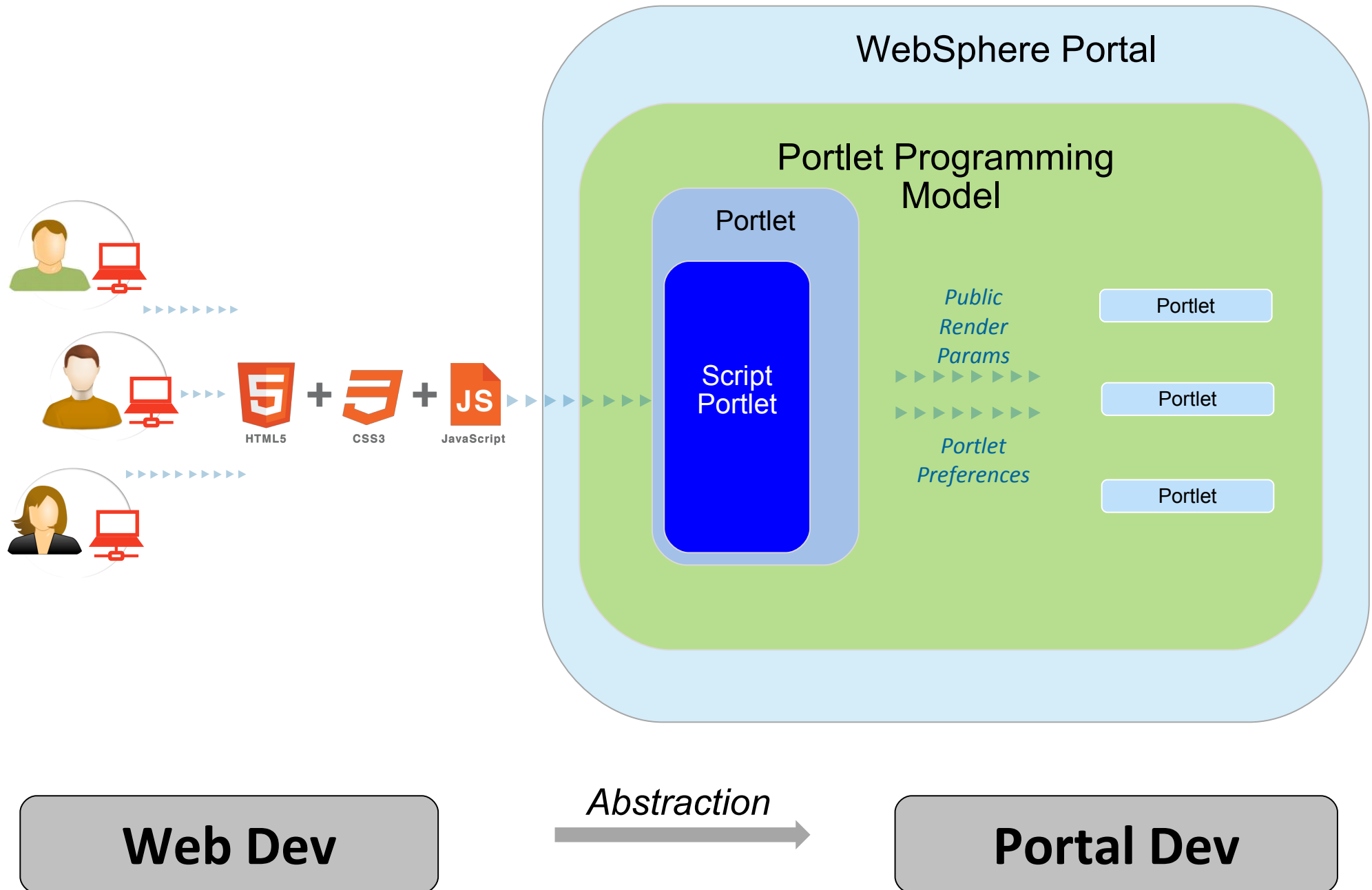
Value Proposition

- Others

- Any text editors can optionally be used for development, by using a WebDav mapped drive
- Re-usable content – pick and point to script of your choice

Value Proposition

- Leverage Code Mirror features
 - Syntax highlighting.
 - Auto indentation and outdent.
 - Handles huge documents (hundreds of thousands of lines) without trouble.
 - Customizable key bindings including Vi and Emacs modes.
 - A wide range of language modes.
 - Add-ons for autocompletion, code folding, integrated linting.
 - A broad programming API



Demo



Add a Script Portlet to the page

Firefox Banking

localhost:10039/wps/myportal/Home/Banking/!ut/p/a1/!dBLDoJADAbgs3gA0woIsx0NjoA6OILgbAwmiEQEEgnnl0dckCjGrrr4v7YpSAhB5IG Google

News My Portal Travel Personal Travel Personal Stuff Portal Stuff IBM Sites Weather Conferences Collab Samples Stuff Favorites Create a new Fiddle - j...

Home Administration Applications Search Center CTC Demo Tag Center Site Builder RobCo Employees

View Mode Published Site
Directly editing published content

Overview Content Style Layout

Search All

All
Web Content
Communications
Collaboration
Tools
Administration

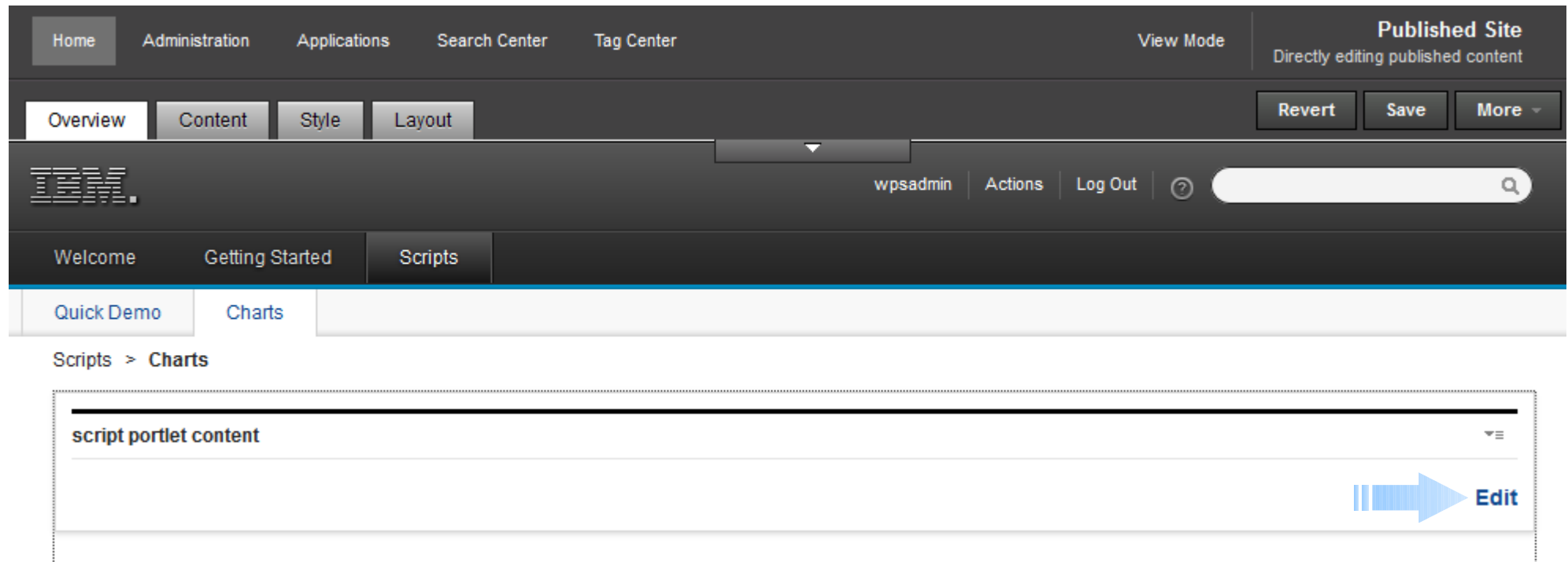
About WebSphere Portal +
Add to Sametime List +
Alerts Latest +
Appearance portlet +
Application Layout +
Application Status +
Article +
Banner Ad +
Breadcrumb Trail Navigation for Static Page Aggreg...

Page 1 of 15 Jump to page 1 Previous Next

IBM Script + wpsadmin Actions Log Out ?

Welcome Getting Started WCMScript Banking

Go into Edit mode



The screenshot displays the IBM Social Business administration interface. The top navigation bar includes links for Home, Administration, Applications, Search Center, and Tag Center. A 'View Mode' dropdown is set to 'Published Site', with a sub-label 'Directly editing published content'. Below this, a secondary navigation bar shows 'Overview', 'Content', 'Style', and 'Layout' tabs. The main content area features the IBM logo on the left and a user profile for 'wpsadmin' with links for 'Actions' and 'Log Out' on the right. A search bar is also present. The left sidebar contains a 'Scripts' section with 'Quick Demo' and 'Charts' links. The main content area shows a breadcrumb trail 'Scripts > Charts' and a portlet titled 'script portlet content'. A large blue arrow points to an 'Edit' button, indicating the next step to enter edit mode.

Home Administration Applications Search Center Tag Center View Mode Published Site
Directly editing published content

Overview Content Style Layout

IBM wpsadmin Actions Log Out ?

Welcome Getting Started Scripts

Quick Demo Charts

Scripts > Charts

script portlet content

Edit

Script Portlet Editor

script portlet content

Last modified Dec 21, 2013 12:41:54 PM GMT 05:30 by wpsadmin | Created by wpsadmin

HTML

```
1 <title id='Description'>jQuery Chart Sample</title>
2 <link rel="stylesheet" href="http://www.jqwidgets.com/jquery-widgets-
  documentation/jqwidgets/styles/jqx.base.css" type="text/css" />
3 <body style="background:white;">
4 <div id='chartContainer' style="width:600px; height: 400px"/>
```

JavaScript

```
1
2
3 $(document).ready(function () {
4
5     // prepare chart data
6     var sampleData = [
7         { Day:'Monday', Books:30, Toys:15, Apparels: 25},
8         { Day:'Tuesday', Books:25, Toys:25, Apparels:
9 30},
10        { Day:'Tuesday', Books:25, Toys:25, Apparels: 30},
11        { Day:'Wednesday', Books:30, Toys:20, Apparels: 25},
12        { Day:'Thursday', Books:35, Toys:25, Apparels: 45},
13        { Day:'Friday', Books:20, Toys:20, Apparels: 25},
14        { Day:'Saturday', Books:20, Toys:20, Apparels: 20}
```

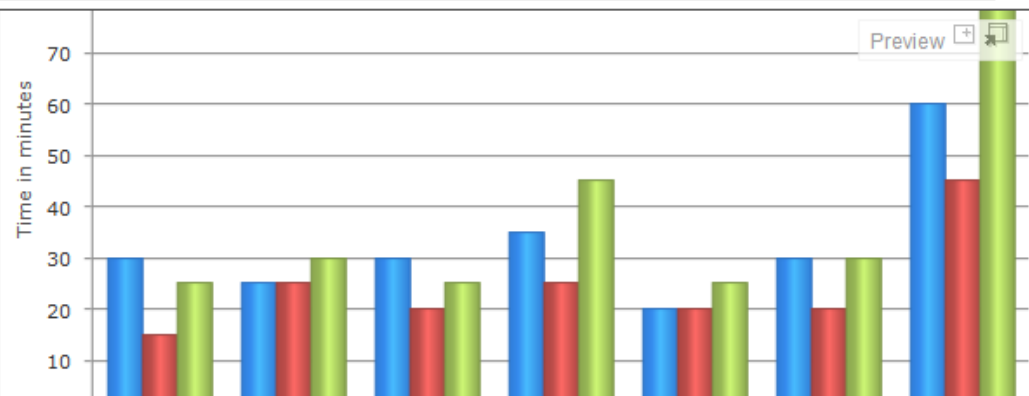
Save

CSS

CSS

Preview

Preview



The Result

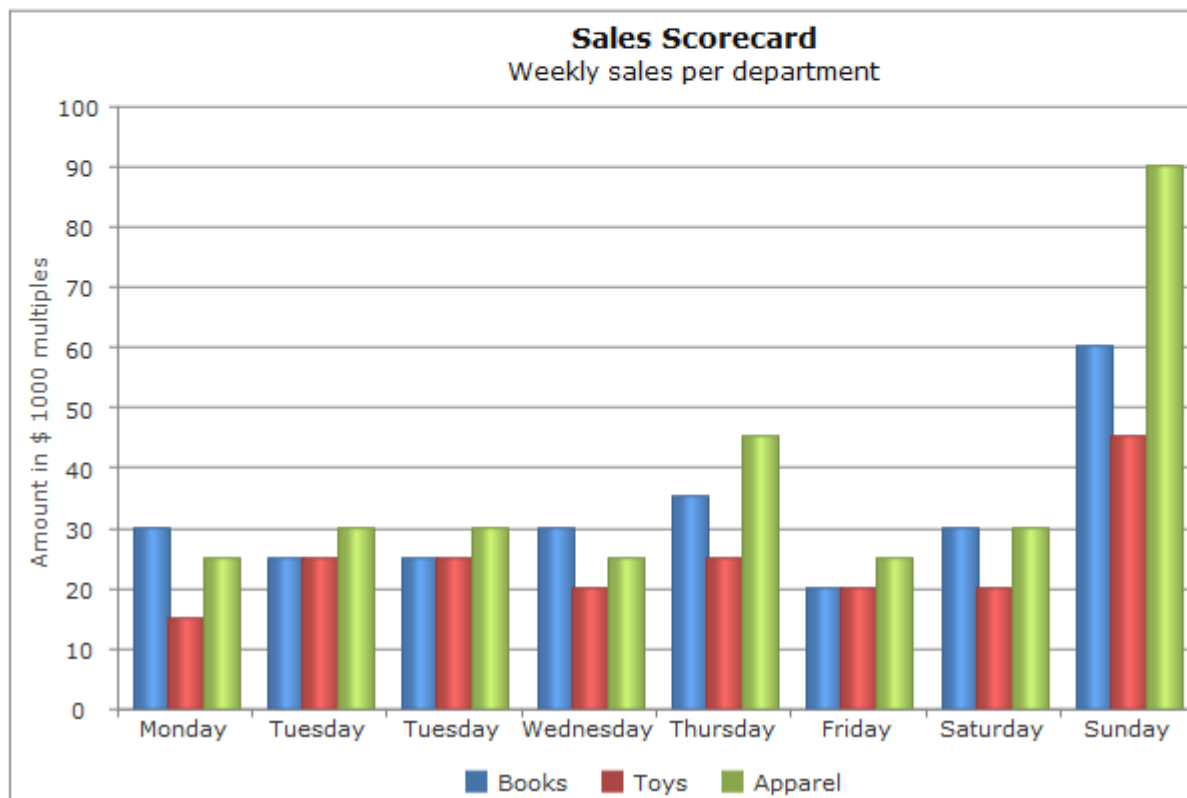
Home Administration Applications Search Center Tag Center

IBM wpsadmin Actions Log Out

Welcome Getting Started Scripts

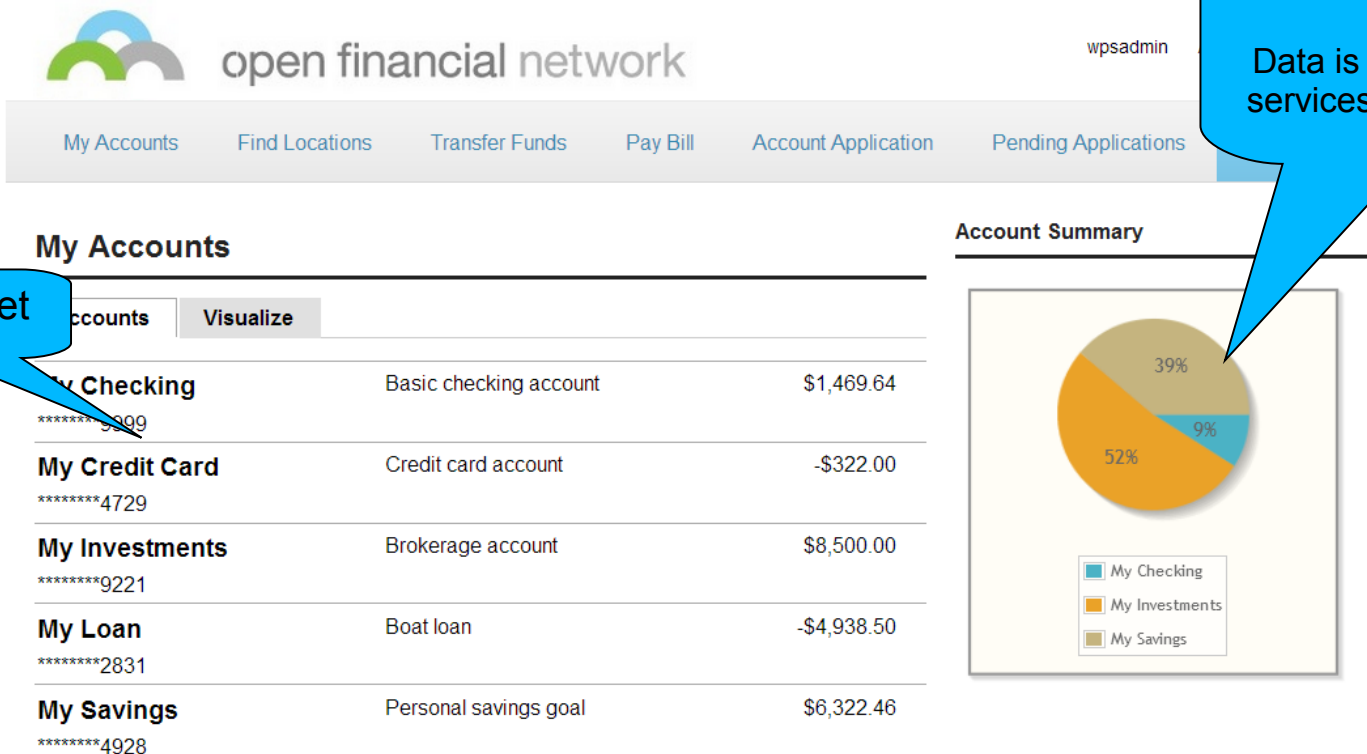
Quick Demo Charts

Scripts > Charts



Script Portlets are first-class Portal citizens and play well with others

- Your Portal site can combine Script Portlets with any other portlets built with WEF, RAD, or other tools
- Portlets can communicate (e.g., with Public Render Parameters or JS/jQuery events) and share styling



WEF Portlet

Script Portlet

Data is from JSON REST services provided by WEF

How Script Portlet fits with WEF and RAD tools

- Script Portlet does not replace WEF and RAD!
 - It is complementary to those IDE-based tools
- With Script Portlet you get the unique benefits of cloud-based development and WCM management of portlet assets
- With RAD or WEF you get the unique benefits those frameworks provide:
 - WEF uses a model-based code generation approach using “builders,” for rapid development and multiple variations from a single model
 - RAD includes a very rich set of capabilities for JEE development like JSF, with WYSIWYG and drag/drop tools for UI development

What about server-side portlets and all the existing tools?

- Server-side portlets are not going away!
- They work very well and will continue to be used by many, many customers
- The tools and frameworks for server-side portlets are very rich and mature, and continue to be enhanced
- WEF and RAD roadmaps include continued enhancements for server-side applications, and for combining server-side with JavaScript in various ways

Resources

- Download from Greenhouse Solution Catalog here
 - <https://greenhouse.lotus.com/plugins/plugincatalog.nsf/assetDetails.xsp?action=editDocument&documentId=DDB5C467D991413285257C67002476E0>
- Script Portlet community on w3: <http://ibmurl.hursley.ibm.com/47QC>
- Charts, demos etc are posted in this community
- Demo server for IBMers (Sales, ISSC, GBS and others) is available:
 - <http://50.97.203.147/wps/portal>
- Here are links to some additional videos that show off this, and different scenarios:
 - Show off html5 video, html5 image capture support, html5 geolocation, all using script portlet, and display the images on a map, at the location they were taking: <https://w3-connections.ibm.com/files/app/file/3b269ac4-59ed-48f7-911d-5fd16b9f699d>
 - google finance in portal/wcm based on scriptportlet one: <https://w3-connections.ibm.com/files/app/file/269c925a-8a42-4298-963f-078836b18766>
 - google now implemented in portal/wcm based on script portlet: <https://w3-connections.ibm.com/files/app/file/c7ca78c5-150b-4aa5-9578-e94ed671cabd>
 - IO demo (this is our version of a Groupon website and Groupon native app based on Portal/WCM, also second half of video also shows a whole bunch of script portlet samples: <https://w3-connections.ibm.com/files/app/file/1534ef7d-8553-42d2-a5d5-c9fd5888421f>

Thank You